# Translation

## PATENT COOPERATION TREATY



# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference YCT-884	FOR FURTHER ACT	rion	See Form PCT/IPEA/416			
International application No.	International filing date		Priority date (day/month/year)			
PCT/JP2003/014209	07 November 2003	3 (07.11.2003)	07 November 2002 (07.11.2002)			
International Patent Classification (IPC) or D21C 9/00, D21H 11/14	national classification and	IPC				
Applicant N	IIPPON PAPER INDU	JSTRIES CO., L	TD.			
This report is the international pre Authority under Article 35 and tra	liminary examination repor	t, established by this ecording to Article 3	s International Preliminary Examining 6.			
2. This REPORT consists of a total of	This REPORT consists of a total of sheets, including this cover sheet.					
	This report is also accompanied by ANNEXES, comprising:					
	nd to the International Bure	eau) a total of 3	sheets, as follows:			
and/or sheets c Administrative	ontaining rectifications auth Instructions).	horized by this Auth	been amended and are the basis of this report nority (see Rule 70.16 and Section 607 of the			
beyond the dis	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	s indicated in the Supplem		type and number of electronic carrier(s)) ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the			
4. This report contains indications r	relating to the following iter	ns:				
Box No. I Basis of the report						
Box No. II Priority						
Box No. III Non-establ	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1 — — — — — — — — — — — — — — — — — — —						
Box No. V Reasoned	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
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Box No. VII Certain de	fects in the international ap	plication				
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completio	n of this report			
23 April 2004 (23.	04.2004)	01	February 2005 (01.02.2005)			
Name and mailing address of the IPEA/	/IP	Authorized office	г			
Facsimile No.		Telephone No.				

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

### PCT/JP2003/014209

Box No	. I	Basis of the report			
1. With other	regard	to the language, this report is based idicated under this item.	on the international application in the lan	guage in which it was filed, unless	
	This whic	report is based on translations from h is language of a translation furnished	the original language into the following d for the purpose of:	g language,	
		international search (under Rules 12.	3 and 23.1(b))		
İ		publication of the international appli	cation (under Rule 12.4)		
ł		international preliminary examinatio	n (under Rules 55.2 and/or 55.3)		
jurni	snea to tre not	I to the elements of the internation the receiving Office in response to annexed to this report):  atternational application as originally forms.	al application, this report is based on invitation under Article 14 are referre	(replacement sheets which have been d to in this report as "originally filed"	
$\overline{\boxtimes}$		scription:			
	pages	•	1-9	, as originally filed/furnished	
	pages'	10, 11	received by this Authority on	18 October 2004 (18.10.2004)	
	pages'		received by this Authority on	(1312)1200.)	
$\boxtimes$	the cla	aims:	<del>-</del>		
-	pages		3	, as originally filed/furnished	
	pages*		, as amended (togo	ether with any statement) under Article 19	
	pages*	1, 2, 4, 5	received by this Authority on	18 October 2004 (18.10.2004)	
	pages*		received by this Authority on		
$\boxtimes$	the dra	awings:	,		
<u> </u>	pages	<b>3</b>	1-4	, as originally filed/furnished	
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	pages*	•	received by this Authority on		
	a segu	ence listing and/or any related table(s	) – see Supplemental Box Relating to Sec	T int	
ليب		and the same and t	y see supplemental box Relating to see	quence Listing.	
3.	The an	nendments have resulted in the cance	Hading of		
J. [2]	~				
		the description, pages	12		
	=	the claims, Nos.			
		the drawings, sheets/figs			
	the sequence listing (specify):				
	L .	any table(s) related to sequence listing	g (specify):		
4. 🗌	This re	eport has been established as if (som	e of) the amendments annexed to this re	eport and listed below had not been	
	(Rule 7	since they have been considered to $70.2(c)$ .	go beyond the disclosure as filed, as	indicated in the Supplemental Box	
	ÌΠι	he description, pages			
		he claims, Nos.			
		he drawings, sheets/figs			
		he sequence listing (specify):		j	
	r -1	any table(s) related to sequence listing			
	LJ °	,	(apecijy)		
* If item	4 appl	ies, some or all of those sheets may b	e marked "superseded."		
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International application No.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP03/14209

	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
Novelty (N)	Claims		YES		
	Claims	1-5	NO		
Inventive step (IS)	Claims	_	YES		
	Claims	1-5	NO		
Industrial applicability (IA)	Claims	1-5	YES		
	Claims		NO		

2. Citations and explanations (Rule 70.7)

### Claims 1-5

Irradiating pulp with ultraviolet and/or visible light in the presence of at least one compound selected from a group consisting of reducing agents, peroxides and organic compounds capable of producing hydrogen is described in the following documents. For example, document 1 (paragraph [0007]) describes that the invention can be applied to all pulps including mechanical pulp, chemical pulp and waste paper pulp. So, even if the kind of pulp is specified, the invention of the present application is not different from the inventions described in the following documents. These documents do not particularly describe color resistance, but agree with the invention of the present application in the treatment for the pulp.

Therefore, the subject matters of claims 1-5 do not appear to be novel.

### Documents:

Document 1: JP, 6-128890, A Document 2: WO, 84-00181, A Document 3: JP, 2002-88671, A Document 4: JP, 2002-88672, A Document 5: JP, 2002-88673, A